



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/813,097

DATE: 07/27/2004

TIME: 12:41:51

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J813097.raw

3 <110> APPLICANT: Liew, Choong-Chin  
 5 <120> TITLE OF INVENTION: Method for the Detection of Chagas Related Gene Transcripts  
 in Blood

7 <130> FILE REFERENCE: 4231/2055K  
 9 <140> CURRENT APPLICATION NUMBER: 10/813,097  
 10 <141> CURRENT FILING DATE: 2004-3-30  
 12 <150> PRIOR APPLICATION NUMBER: US 10/802,875  
 13 <151> PRIOR FILING DATE: 2004-03-12  
 15 <150> PRIOR APPLICATION NUMBER: US 10/601,518  
 16 <151> PRIOR FILING DATE: 2003-06-20  
 18 <150> PRIOR APPLICATION NUMBER: US 10/268,730  
 19 <151> PRIOR FILING DATE: 2002-10-09  
 21 <150> PRIOR APPLICATION NUMBER: US 10/085,783  
 22 <151> PRIOR FILING DATE: 2002-02-28  
 24 <150> PRIOR APPLICATION NUMBER: US 09/477,148  
 25 <151> PRIOR FILING DATE: 2000-01-04  
 27 <150> PRIOR APPLICATION NUMBER: US 60/271,955  
 28 <151> PRIOR FILING DATE: 2001-02-28  
 30 <150> PRIOR APPLICATION NUMBER: US 60/305,340  
 31 <151> PRIOR FILING DATE: 2001-07-13  
 33 <150> PRIOR APPLICATION NUMBER: US 60/275,017  
 34 <151> PRIOR FILING DATE: 2001-03-12  
 36 <150> PRIOR APPLICATION NUMBER: US 60/115,125  
 37 <151> PRIOR FILING DATE: 1999-01-06  
 39 <160> NUMBER OF SEQ ID NOS: 112  
 41 <170> SOFTWARE: PatentIn version 3.2  
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 44 <211> LENGTH: 110  
 45 <212> TYPE: DNA  
 46 <213> ORGANISM: Human  
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 49 acacaacgta acaataacat atttagccaa tgtagtagac tgctatataa tacattagag 60  
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 63 <223> OTHER INFORMATION: n is a, c, g, or t  
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 66 <221> NAME/KEY: misc\_feature  
 67 <222> LOCATION: (19)..(19)



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128 <223> OTHER INFORMATION: n is a, c, g, or t

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Input Set : A:\pto.lm.TXT

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248 <223> OTHER INFORMATION: n is a, c, g, or t  
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Input Set : A:\pto.lm.TXT

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252 <222> LOCATION: (312)..(312)  
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311 <221> NAME/KEY: misc\_feature  
312 <222> LOCATION: (412)..(413)

**RAW SEQUENCE LISTING ERROR SUMMARY**  
**PATENT APPLICATION: US/10/813,097**

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 TIME: 12:41:52

Input Set : A:\pto.lm.TXT  
 Output Set: N:\CRF4\07272004\J813097.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 16,19,25,38,40,42,44,64,65,66,70,71,81,86,89,117,121,123,135  
 Seq#:2; N Pos. 143,177,179,181,193,194,209,210,215,217,221,228,233,236,243  
 Seq#:2; N Pos. 251,252,253,254,270,272,274,275,283,292,293,299,303,307,312  
 Seq#:2; N Pos. 319,324,325,328,329,342,345,366,377,382,391,395,400,412,413  
 Seq#:2; N Pos. 422,424,426,433,439,442,452,460,463,471,495,500,504,516  
 Seq#:5; N Pos. 13,14,16,20,21,25,26,27,28,42,52,55,57,59,63,65,68,72,74,77  
 Seq#:5; N Pos. 91,102,117,127,128,169,172,192,203,243,244,248,249,253,283  
 Seq#:5; N Pos. 288,299,318,327,334,348,359,360  
 Seq#:6; N Pos. 475,556,559,585,606,644,671,693,695,714,742,744,756,765,768  
 Seq#:6; N Pos. 808,815,823,830,837  
 Seq#:10; N Pos. 433,600,615,626,645,661  
 Seq#:14; N Pos. 6,15,37,38,47,56,57,94,127,155,157  
 Seq#:16; N Pos. 5,15,39,47,52,69,154,207,217  
 Seq#:17; N Pos. 18,19,27,47,66,76,82,108,133,162,210,260,276  
 Seq#:19; N Pos. 17,40,59,76,107,165,189,216,221,230  
 Seq#:21; N Pos. 17,23,28,36,41,44,53,59,62,67,70,71,74,76,79,83,84,86,97  
 Seq#:22; N Pos. 2,17,37,52,53,56,77,85,89,96  
 Seq#:23; N Pos. 17,19,27,28,29,37,38,46,49,65,72  
 Seq#:24; N Pos. 5,13,71,88,91,109,157,177,199,207,211  
 Seq#:26; N Pos. 299,333,353,410,411,460,474,479  
 Seq#:27; N Pos. 348,422,435,476,490  
 Seq#:28; N Pos. 18,47,59,74,138,174,176,211  
 Seq#:29; N Pos. 1,2,12,29,34  
 Seq#:30; N Pos. 3,4,5,6,8,13,15,20,27,32,33,40,49,50,57,63,67,69,76,78,87  
 Seq#:30; N Pos. 89  
 Seq#:31; N Pos. 12,26,46,49,55,60,63,69,70,73,79,92,96  
 Seq#:32; N Pos. 2,7,27,34,57,63,64,67,73,75,76,77,78,80,90,96,97,98  
 Seq#:33; N Pos. 5,12,28,32,38,44,57,68,76,82,92  
 Seq#:34; N Pos. 3,21,27,28,38,47,50,53,61,73,78,83,85,97  
 Seq#:35; N Pos. 21,22,28,32,65,67,68,70,77,83,92  
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 Seq#:44; N Pos. 2,11,27,28,34,38,39,41,49,50,61,62,67,68,76,79,80,85,89,93  
 Seq#:45; N Pos. 8,24,33,34,47,48,58,63,68,71,73,77,88,95,96  
 Seq#:46; N Pos. 74  
 Seq#:47; N Pos. 7,8,17,23,33,42,47,48,52,55,60,62,66,70,71,74,84,86,87,96  
 Seq#:47; N Pos. 99,100  
 Seq#:48; N Pos. 5,6,33,35,36,42,46,48,55,59,69,81,87,91,94,97  
 Seq#:49; N Pos. 20,38,164,178,201,211,274,305,340,346,386,387,405,433,446  
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Seq#:50; N Pos. 192,198,205,215,223,224,233,234,238,243,253,257,268,280,291  
Seq#:50; N Pos. 296,300,305,308,311,319,322,326,328,334,335,338,339,347,352  
Seq#:50; N Pos. 358,361,367,382,389,395,410,413,414,418,425,436,443  
Seq#:51; N Pos. 19,59,87,119,203,215,274,296,309,353,425,426,427,431,451  
Seq#:51; N Pos. 470,472,478  
Seq#:52; N Pos. 13,14,17,20,22,27,29,31,36,43,46,58,59,74,78,81,85,87,88,90  
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Seq#:52; N Pos. 167,169,170,171,172,179,183,185,186,187,194,200,201,202,203  
Seq#:52; N Pos. 205,235,236,242,244,246,247,250,303,305,318,327,331,335,336  
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Seq#:52; N Pos. 481,485,488,505,506,507,525,528,532,534,535,543,551,552,553  
Seq#:52; N Pos. 555,561,568,573,584,589,598,605,612,618,633,647,653,654,664  
Seq#:52; N Pos. 679,689,695,698,711,720  
Seq#:53; N Pos. 13,15,37,42,44,45,50,57,58,59,70,74,80  
Seq#:55; N Pos. 5,32,40,60,62,76,107,155  
Seq#:56; N Pos. 4  
Seq#:69; N Pos. 356  
Seq#:70; N Pos. 26  
Seq#:71; N Pos. 5,19,29,38,42,45,49,61,77,79,88,90,100,110  
Seq#:72; N Pos. 151  
Seq#:73; N Pos. 7,16,233  
Seq#:74; N Pos. 31,32,57  
Seq#:76; N Pos. 11,35,37,38,43,56,67,71,75  
Seq#:77; N Pos. 6,11  
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Seq#:79; N Pos. 10,20,29,30,35,49,92  
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Seq#:84; N Pos. 30  
Seq#:89; N Pos. 37,47,108,112,129,134,152,168,196,239  
Seq#:91; N Pos. 326,338,339,344  
Seq#:92; N Pos. 32,34  
Seq#:94; N Pos. 5,25,38,39,44,46,59,66,70,74,80,82,83,84,86,90,91,92,112  
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Seq#:94; N Pos. 502,506  
Seq#:95; N Pos. 11,24,40,48,51,71,80,83,91,95,99,111,115,116,118,121,123  
Seq#:95; N Pos. 124,126,129,131,133,135,148,153,170,173,175,177,192,195,196  
Seq#:95; N Pos. 198,200,201,211,212,219,222,223,226,231,240,243,244,249,255  
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Seq#:96; N Pos. 171,622,628,642,661,668,694,709,710,735,751,752,763,778,782

**RAW SEQUENCE LISTING ERROR SUMMARY**  
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Input Set : A:\pto.lm.TXT  
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Seq#:98; N Pos. 17  
Seq#:99; N Pos. 8,361  
Seq#:100; N Pos. 8,39,50,56,71,72,97,110,177  
Seq#:101; N Pos. 121



## VERIFICATION SUMMARY

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Input Set : A:\pto.lm.TXT

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L:10 M:256 W: Invalid Numeric Header Field, Wrong Current FILING DATE:YYYY-MM-DD  
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60  
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120  
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:180  
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:240  
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300  
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:360  
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:420  
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:480  
L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:120  
L:616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:180  
L:618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240  
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:300  
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420  
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:540  
L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600  
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:660  
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:720  
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:780  
L:855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:420  
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:540  
L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:600  
L:863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:660  
L:963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60  
L:967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:120  
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:1047 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60  
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:120  
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:180  
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:1123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:60  
L:1125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120  
L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180  
L:1129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240  
L:1212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:1214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:60  
L:1216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:120  
L:1218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:180  
L:1330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:1332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60  
L:1387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:1389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:60  
L:1439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:1441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60

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L:1506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:1508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:60  
L:1510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:120  
L:1512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180  
L:1584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240  
L:1586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:300  
L:1588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:360  
L:1590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:420  
L:1637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:300  
L:1641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420  
L:1643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:480  
L:1693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:1695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:60  
L:1697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120  
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180  
L:1729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:1826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:1828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:60  
L:1898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:1900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:60  
L:1970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:1972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:60  
L:2037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:2039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60  
L:2114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:2116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60  
L:2171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:2173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:60  
L:2238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:2240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:60  
L:2317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:2319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:60  
L:2321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:120  
L:2361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:2363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:60  
L:2408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:2410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:60  
L:2432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60  
L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0  
L:2498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:60  
L:2593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0  
L:2595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:60  
L:2665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0  
L:2667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:60  
L:2684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:60  
L:2779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0  
L:2781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:60  
L:2861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0  
L:2863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:60

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L:2943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:2947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120  
L:2949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:180  
L:2951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:240  
L:2953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:300  
L:2955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:360  
L:2957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:420  
L:3317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0  
L:3319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:60  
L:3321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120  
L:3323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:180  
L:3325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:240  
L:3327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:300  
L:3329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:360  
L:3331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:420  
L:3421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0  
L:3423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60  
L:3427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:180  
L:3429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240  
L:3431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:300  
L:3435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:420  
L:3899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0  
L:3901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60  
L:3903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:120  
L:3905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:180  
L:3907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:240  
L:3909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:300  
L:3911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:360  
L:3913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:420  
L:3915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:480  
L:3917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:540  
L:3919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:600  
L:3921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:660  
L:3983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0  
L:3985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:60  
L:4060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0  
L:4062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:60  
L:4064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120  
L:4079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0  
L:4338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:300  
L:4355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0  
L:4451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0  
L:4453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:60  
L:4474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:120  
L:4509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0  
L:4515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:180  
L:4545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0  
L:4616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0  
L:4618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:60

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L:4648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0  
L:4741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0  
L:4743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:60  
L:4745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:120  
L:4793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0  
L:4795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:60  
L:4877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0  
L:4879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:60  
L:4881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:120  
L:4883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:180  
L:4908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0  
L:4967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0  
L:4969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:60  
L:4971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:120  
L:5001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0  
L:5020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0  
L:5166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0  
L:5168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:60  
L:5170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:120  
L:5172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:180  
L:5226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:300  
L:5248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0  
L:5670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0  
L:5672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:60  
L:5674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:120  
L:5676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:180  
L:5678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:240  
L:5680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:300  
L:5682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:360  
L:5684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:420  
L:5686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:480  
L:5981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0  
L:5983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:60  
L:5985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:120  
L:5987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:180  
L:5989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:240  
L:5991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:300  
L:5993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:360  
L:6087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:120  
L:6103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:600  
L:6105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:660  
L:6107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:720  
L:6109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:780  
L:6143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0  
L:6165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0  
L:6177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:360  
L:6231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0  
L:6233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:60  
L:6235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:120

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L:6262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:120